Nucleic acid adduct for in situ hybridisation to give nucleic acid sequences - comprises water soluble basic polymer and nucleic acid sequence formed by polymerase chain reaction and/or reverse transcriptase reaction

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- european: C12N15/10, C12Q1/68B14

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Abstract of **DE4038293**

Nucleic acid adduct comprises (a) a water soluble, basic polymer, adsorbed on cells in histological or cytological prepns.; and (b) a nucleic acid sequence contained in the cells and is formed by a polymerase chain reaction and/or reverse transcriptors reaction. Adducts are amplifiable and there is a bond between the two components. Basic polymer is pref. polyethylene-imine or DEAE-dextran. USE/ADVANTAGE - Can be used for in situ hybridisation to give special nucleic acid sequences. Double-stranded or single-stranded DNA or RNA, of viral or cellular origin, is bound in situ to the basic polymer and the adduct is amplified by a polymerase chain reaction and hybridised with a labelled gene probe. In an example, cervix carcinoma tissue was fixed with neutral formaldehyde soln. and embedded in paraffin. A slice of this was placed on a microscopic slide which had been pre-treated with 3-(triethoxysilyl)-propylamine. This was incubated with 5% polyethylene imine (mol.wt. 30,000-40,000) in water for 30 mins. at 37 deg.C. Glass carrier was rinsed with water and dried. Cover slide was placed over the tissue and a conventional polymerase chain reaction was carried out by dipping the prepn. in a thermostatic bath, followed by hybridisation with biotin labelled human papilloma virus type 16-DNA. (Dwg.0/0)

Caren Burgoon

From: Simon.Kiddle@Mewburn.com
Sent: Monday, February 23, 2004 10:08 AM
To: Pat Hagan
Subject: Document request for DE 4038293/IDS for Matthew Baker Charge Switch applications

Hi Pat

This is to follow up on the phone call from your assistant Karen.

You can find an abstract for De 4038293 at:

http://v3.espacenet.com/textdoc?DB=EPODOC&IDX=DE4038293

I believe that this should be sufficient for the US PTO, but let me know if you need anything further.

Best regards.

Simon

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